IN THE CLAIMS:

The text of all pending claims, (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with underlining and deleted text with ~~strikethrough~~. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered).

Please ADD claims 7 and 8 in accordance with the following:

1. (previously amended) A transmission system for transmitting digital signals between a TDM network connected via an exchange termination and TDM-based terminal equipment connected via a line termination, comprising:

an ATM network having user interfaces;

connection units, provided respectively at the exchange termination and the line termination to respectively connect each of the exchange termination and the line termination to one of the user interfaces of the ATM network;

conversion units provided respectively at the exchange termination and the line termination, to convert time-division multiplex data into ATM cells, or ATM cells into time-division multiplex data; and

an allocation unit to allocate a virtual ATM channel to each time-division multiplex channel.

2. (previously amended) A transmission system according to claim 1, further comprising a switching device for switching time-division multiplex digital signals between a plurality of exchange terminations, wherein the plurality of exchange terminations of the switching device are connected to a single user interface of an ATM network.

3. (previously amended) A transmission system according to claim 2, wherein all exchange terminations of the switching device are connected to a single user interface of the ATM network.

4. (previously amended) A transmission system according to claim 1, wherein the conversion units contain a channel multiplexer/demultiplexer for distributing digital signals of the individual time-division multiplex channels to the respectively allocated ATM cells, or the digital signals from the ATM cells and distribute them into the allocated time-division multiplex

channels; said system further comprising an ATM converter for packing items of digital information received from the channel multiplexer/demultiplexer into ATM cells or, respectively, for unpacking ATM cells and emitting the digital information contained therein to the channel multiplexer/demultiplexer, and for inserting ATM cells from this cell stream, and an interface for passing synchronization information of the time-division multiplex signals to the ATM network or, respectively, to receive synchronization information from the ATM network, and pass it to the ATM converter and to the channel multiplexer/demultiplexer.

5. (previously presented) A transmission system according to claim 1, wherein the ATM network, the connection units, the conversion units and the allocation unit create a V1 reference point according to ITU-T G.960 between the exchange termination and the line termination.

6. (previously amended) A transmission system according to claim 1, wherein

the exchange termination is provided at a private branch exchange, and

the ATM network is provided between the private branch exchange and the TDM-based terminal equipment.

7. (new) A transmission system for transmitting digital signals between a TDM network connected via an exchange termination and TDM-based terminal equipment connected via a line termination, comprising:

an ATM network having user interfaces;

connection units, provided respectively at the exchange termination and the line termination to respectively connect each of the exchange termination and the line termination to one of the user interfaces of the ATM network;

conversion units provided respectively at the exchange termination and the line termination, to convert time-division multiplex data into ATM cells, or ATM cells into time-division multiplex data, the conversion units serving the function of a V_1 reference point; and

an allocation unit to allocate a virtual ATM channel to each time-division multiplex channel.

8. (new) An ISDN subscriber terminal, comprising:

a receiver to receive digital time division multiplexed signals;

a transmitter to transmit digital time division multiplexed signals;

a conversion unit to convert time-division multiplexed data into ATM cells and convert

ATM cells into time-division multiplexed data, the conversion unit having a TDM side connected to the receiver and transmitter and having an ATM side, the conversion unit serving the functions of a V_1 reference point; and

a connection unit to connect the subscriber terminal to a broadband, packet oriented ATM network, and allow the subscriber terminal to be moved from one location to another, the connection unit communicating data between the conversion unit and the ATM network.